

AMENDMENT UNDER 37 C.F.R. § 1.116
U. S. Application No. 09/116,589

IN THE CLAIMS:

The claims are amended as follows:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)

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20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Currently Amended) A method of fabricating a hologram-recorded medium which

is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in which any one of a plurality of volume type diffraction gratings comprising volume holograms and differing from each other is assigned to at least a part of said pixels, the method comprising:

stacking a photosensitive material, capable of recording a volume hologram, on a first reflection type relief hologram, and

striking reconstructing illumination light of given wavelength on said first reflection type relief hologram through said photosensitive material, so that first interference fringes produced by interference of light diffracted from said first reflection type relief hologram and the incident light are recorded in said photosensitive material,

replacing said first reflection type relief hologram with a second reflection type relief hologram and striking reconstructing illumination light of the given wavelength on said second reflection type relief hologram through said photosensitive material, so that second interference

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fringes produced by interference of light diffracted from said second reflection type relief

hologram and the incident light are recorded in said photosensitive material,

wherein each of said first and second reflection type relief hologram holograms
comprises a computer generated hologram (CGH).)

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29. (Currently Amended) A method of fabricating a hologram-recorded medium which is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in which any one of a plurality of volume type diffraction gratings comprising volume holograms and differing from each other is assigned to at least a part of said pixels, the method comprising:

stacking a photosensitive material, capable of recording a volume hologram, on a first transmission type hologram,

striking reconstructing illumination light of given wavelength on a first side of said first transmission type hologram that is opposite a second side of said first transmission type hologram which is facing said photosensitive material, so that first interference fringes produced by interference of light diffracted from said first transmission type hologram and reference light incident on said photosensitive material are recorded in said photosensitive material,

replacing said first transmission type hologram with a second transmission type hologram
and striking reconstructing illumination light of the given wavelength on said second
transmission type hologram through said photosensitive material, so that second interference
fringes produced by interference of light diffracted from said second transmission type hologram
and the incident light are recorded in said photosensitive material,

wherein each of said first and second transmission type hologram holograms comprises a computer generated hologram (CGH).

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30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

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46. (Cancelled)

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48. (Cancelled)

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50. (Cancelled)

51. (Cancelled)

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52. (Cancelled)

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54. (Cancelled)

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56. (Cancelled)

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58. (Cancelled)

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62. (Cancelled)

63. (Cancelled)

64. (Previously Added) The method of fabricating a hologram-recorded medium of

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claim 28, wherein the computer generated hologram is fabricated using an electron beam.